
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 431-21
PARACHUTE
Garfield County , Colorado**

**Cement Surface Casing
02-Oct-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3107928	Quote #:	Sales Order #: 900786568
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Sampson, Harry	
Well Name: PA		Well #: 431-21	API/UWI #:
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Contractor: Nabors		Rig/Platform Name/Num: Nabors 573	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: CASTILLO, FRANCISCO	MBU ID Emp #: 513620

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	4	513620	DIAZ, ZACH Ryan	4	554549	SCHANZ, ANDREW Jacob	4	544399
SINCLAIR, DAN J	4	338784						

Equipment

HES Unit #	Distance-1 way						
10567589C	60 mile	10722398	60 mile	11139330	60 mile	11259884	60 mile
11808831	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/2/13	4	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	SURFACE	Bottom	1185	Called Out	Date	Time	Time Zone
Formation Depth (MD)					On Location	02 - Oct - 2013	06:00	MST
Form Type			BHST		Job Started	02 - Oct - 2013	12:00	MST
Job depth MD	1185. ft		Job Depth TVD	1185. ft	Job Completed	02 - Oct - 2013	13:22	MST
Water Depth			Wk Ht Above Floor	3. ft	Departed Loc	02 - Oct - 2013	14:22	MST
Perforation Depth (MD)	<i>From</i>		<i>To</i>					

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	1179	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1135.27	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625	9	WTF

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	4	
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	6	13.75
13.75 Gal		FRESH WATER							
3	VersaCemGJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	6	11.75
11.75 Gal		FRESH WATER							
4	Displacement Fluid		89.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	89	Shut In: Instant		Lost Returns	0	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	33	Actual Displacement	89	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	234
Rates									
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	7		
Cement Left In Pipe	Amount	43.73 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

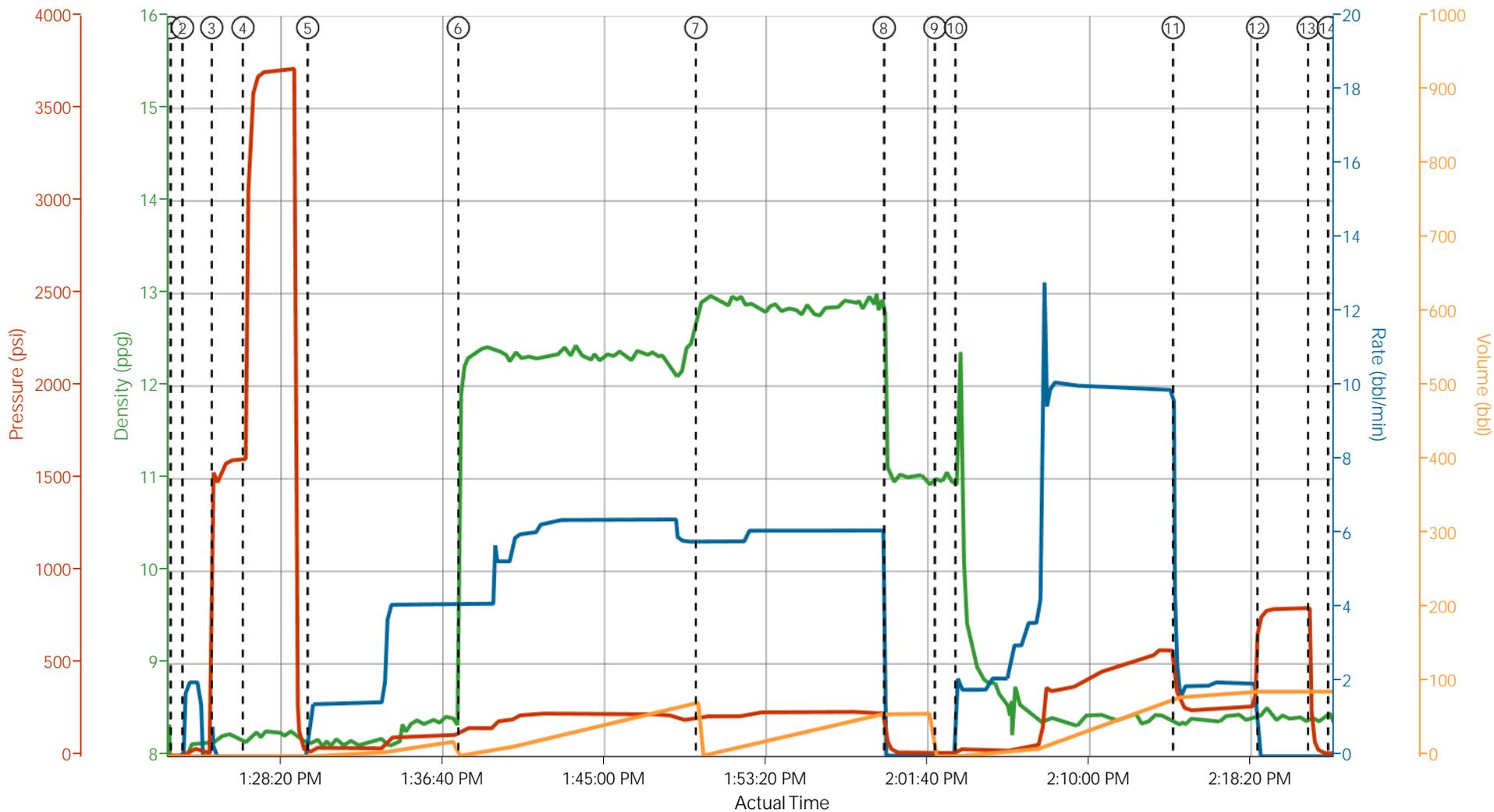
The Road to Excellence Starts with Safety

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Sampson, Harry	
Well Name: PA		Well #: 431-21	API/UWI #:
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Nabors		Rig/Platform Name/Num: Nabors 573	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: CASTILLO, FRANCISCO	MBU ID Emp #: 513620

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/02/2013 06:00							ON LOCATION TIME 12:00 NOON
Pre-Convoy Safety Meeting	10/02/2013 09:50							ALL HES PERSONEL
Crew Leave Yard	10/02/2013 10:00							
Arrive At Loc	10/02/2013 12:00							RIG WAS ALREADY DONE RUNNING CASING SINCE 11:00 AM AND CIRCULATING THE WELL
Assessment Of Location Safety Meeting	10/02/2013 12:15							ALL HES PERSONEL
Rig-Up Equipment	10/02/2013 12:20							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	10/02/2013 12:55							
Pre-Job Safety Meeting	10/02/2013 13:00							ALL HES PERSONEL AND RIG CREW
Start Job	10/02/2013 13:22							RIG CIRCULATED FOR 2 HRS WITH THEIR OWN SWAGE, NOT HALLIBURTON.
Pump Water	10/02/2013 13:23		2	2			41.0	FILL LINES
Pressure Test	10/02/2013 13:24		0.2	0.2				STALL OUT TEST WITH 1607 PSI
Pressure Test	10/02/2013 13:26		0.2	0.2				PRESSURE TEST LINES WITH 3702 PSI
Pump Spacer	10/02/2013 13:29		4	20			118.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	10/02/2013 13:37		6.5	68			217.0	160 SKS, 12.3 PPG, 2.38 FT ³ /SK, 13.75 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC
Pump Tail Cement	10/02/2013 13:49		6.5	60			242.0	160 SKS, 12.8 PPG, 2.11 FT ³ /SK, 11.75 GAL/SK SETUP TIME 1:51 HRS AT 70 BC
Shutdown	10/02/2013 13:59							
Drop Plug	10/02/2013 14:02							PLUG DROP VERIFIED BY COMPANY MAN AND DRILLER
Pump Displacement	10/02/2013 14:03		10	79			576.0	FRESH WATER / FIRST 10 BBLS PUMPED AT 3 BPM WITH 39 PSI
Slow Rate	10/02/2013 14:14		2	10			263.0	
Bump Plug	10/02/2013 14:18			89			863.0	USED 40 LBS OF SUGAR / CIRCULATED 33 BBLS-78 SKS OF CEMENT TO SURFACE
Check Floats	10/02/2013 14:21							FLOAT HELD / 0.5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	10/02/2013 14:22							DID NOT CHARGE ADDITIONAL HRS
Post-Job Safety Meeting (Pre Rig-Down)	10/02/2013 14:25							
Rig-Down Completed	10/02/2013 15:30							
Depart Location Safety Meeting	10/02/2013 15:45							
Crew Leave Location	10/02/2013 16:00							
Other	10/02/2013 16:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX PA 431-21 SURFACE



— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

- Start Job 3.93;0;5;0 • Test Lines 8.18;0;1607;1.8 • Pump Tail Cement 12.92;5.8;213;0 • Pump Displacement 12.04;1.8;35;0.3 • Check Floats 8.44;0;196;87.4
- Fill Lines 7.78;2;8;0.2 • Pump Water Spacer 8.14;1.3;25;0.1 • Shutdown 11.12;0;74;57.7 • Slow Rate 8.35;2.5;346;79.5 • End Job 8.38;0;15;87.4
- Stall Out 8.11;0;1477;1.8 • Pump Lead Cement 12.06;4.1;132;1.3 • Drop Plug 10.97;0;17;0 • Bump Plug 8.43;0;756;87.4

▼ HALLIBURTON | iCem® Service

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Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 10/2/2013 12:33:52 PM

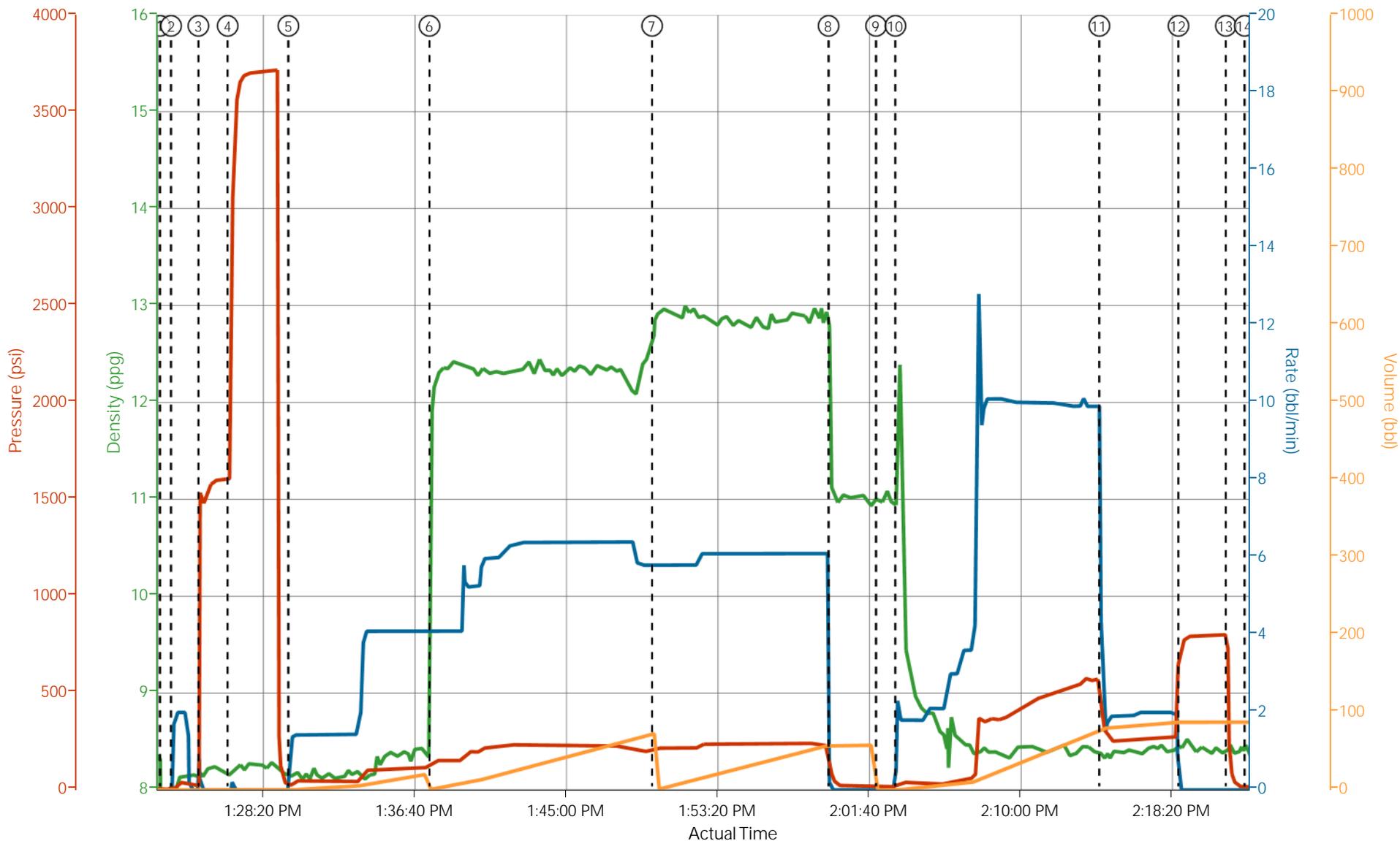
Well : PA 431-21

Representative: PERRY SAMSON

Sales Order #: 900786568

ELITE #3: J. CASTILLO / DAN SINCLAIR

WPX PA 431-21 SURFACE



— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JAVIER CASTILLO
Attention: J.Trout
Lease: PA
Well #: 431-21

Date: 10/2/2013
Date Rec.: 10/2/2013
S.O.#: 900786568
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	63 Deg
Total Dissolved Solids		450 Mg / L

Respectfully: JAVIER CASTILLO

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or if

Sales Order #: 900786568	Line Item: 10	Survey Conducted Date: 10/2/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HARRY SAMSON		API / UWI: (leave blank if unknown) AFEY02YXRJKJSGXSAAA
Well Name: PA		Well Number: 431-21
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	10/2/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (HB85312)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HARRY SAMSON
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 900786568	Line Item: 10	Survey Conducted Date: 10/2/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HARRY SAMSON		API / UWI: (leave blank if unknown) AFEY02YXRJKJSGXSAAA
Well Name: PA		Well Number: 431-21
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	10/2/2013
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 900786568	Line Item: 10	Survey Conducted Date: 10/2/2013
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Customer Representative: HARRY SAMSON		API / UWI: (leave blank if unknown) AFEY02YXRJKJSGXSAAA
Well Name: PA		Well Number: 431-21
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	95
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0